Christie Entero HB Series
SXGA+ display wall cubes

Wi-Fi LED TECHNOLOGY

Key features

- High performance
- Latest technologies
- Low power consumption
- Wide viewability
- Best price/performance
- Automation features
- Redundancy features
- Flexible operation
- Zero maintenance design
- Upgradable
- Superior control abilities
- Diagnostic monitoring
- "Plug and Play" setup
- Fast installation
- Modular design
- Multi-mode
- High reliability
- Eco-friendly
- Efficient operation
- Wi-Fi capability

CHRISTIE

First. Brightest. Wireless control. Discover the Christie Entero HB Series

Christie® Entero™ HB is the industry leading evolution in performance, reliability and confidence for control room video wall displays. The next generation of high-brightness control room LED displays with up to 1350 lumens capability, it offers the brightest LED projection for cubes available. The Christie Entero HB includes Christie ArraySync™ for superior, intelligent, automatic color and brightness wall management.

Designed for zero maintenance, our safe, sealed heat pipe cooling system ensures long LED lifetime and reliability. The Christie Entero HB series offers minimal set-up time and effort. The modular design with lightweight panels for rear access makes installation and service easy. The optional Thinklogical® direct fiber input card provides fiber-optic video signal extension capability. With the integrated 6-axis geometry alignment system, no electronic image correction is needed providing true native imaging with no scaling or software distortion.

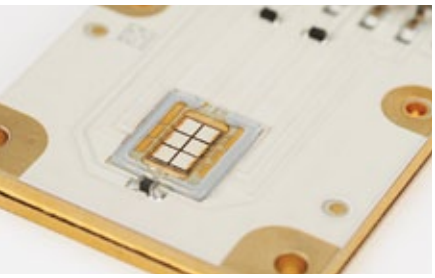
Through the tiling feature, display single source content across an entire array.

Choose the most advanced LED display system design for your control room needs, and along with Christie's quality, service and support, experience an overall low cost of ownership and operation. With the highest brightness on the market, plus unparalleled 24/7 performance, the choice is simple. Choose Christie Entero HB.

Exceed your expectations.

Technical specifications

Christie Entero HB SXGA+ displays				
Models		Cube	Engine	Screen[1]
	50" SXGA+ cube system, rear access	• CC50-2301	• RPMSP-LED02	• SC50-XP01 Cross Prism
	67" SXGA+ cube system, rear access	• CC67-3101	• RPMSP-LED02	• SC67-XP01 Cross Prism
	70" SXGA+ cube system, rear access	• CC70-3201	• RPMSP-LED02	• SC70-XP02 Cross Prism
	80" SXGA+ cube system, rear access	• CC80-3601	• RPMSP-LED02	• SC80-XP01 Cross Prism
	SXGA+ light engine (stand-alone)	• RPMSP-LED02 • 0.69:1 and 1.2:1 lens versions available • Non Wi-Fi models also available		
Imaging technologies	imaging	• Superior 0.95" 1-chip DLP®, Dark Chip • Texas Instruments		
	native resolution	• SXGA+ (1400 x 1050) • 4:3 aspect ratio		
	illumination	• LED (Red, Green, Blue) • OSRAM • Redundant LED Architecture		
Cross prism screen	technology	• Optical: Fresnel/cross prism • DNP		
	screen gap (image to image)[2]	• 0.2-1.0mm • Adjustable • 1mm nominal recommended for rear access @25°C		
	viewability	• 180° Horizontal • 120° Vertical • ±35° Horizontal ½ gain • ±27° Vertical ½ gain		
Brightness		High brightness mode	Normal mode	Eco mode
	light engine (ANSI)	• Up to 1350 lumens	• 950 lumens	• 740 lumens
	control	• Manual and continuous automatic (ArraySync) control to manage brightness uniformity across large display walls		
Color	temperature range	• 3200-9300°K		
	gamut	• Wider than EBU		
	white color balance	• 0.0035 Δu' Δv'		
	control	• ArraySync automatic color management with 12-bit processing to precisely and continuously manage uniformity across large display walls without user intervention • Precise tri-stimulus color sensing (x,y,z) for superior color management • Display light engine is factory calibrated using scientific-grade spectral radiometers for high precision color management • Comprehensive fine adjust controls for manual setup if desired		
Optical	brightness uniformity	• >95% at typical brightness levels specified		
	contrast ratio	• Up to 2100:1 full field without using dynamic or artificial techniques		
Audible noise	noise power level	• <30 dBA typical at 1 meter distance from screen center		
Inputs	standard	• 1 x digital DVI-D • 165 MHz maximum pixel clock frequency • Single link		
	DVI loop-through capability	• Up to 25 displays on a single loop-through chain		
	HDCP support	• Included (operating at native resolution)		
	optional expansion	• Secondary DVI-D input with automatic fail detection and switch over • Thinklogical direct fiber input card		
	compatibility	• All Christie video wall processors and most standard sources		
Control and networking	methods	• IR full function remote keypad • External computer or control device via Ethernet and/or RS-232 and/or Wi-Fi (Wi-Fi can be disabled with no radio frequency transmission if required)		
	physical ports	• 1 x RS-232 • 2 x Ethernet RJ4		
	Ethernet bridging (daisy chain) limit	• Up to 25 Ethernet bridges, projector to projector without external switch		
Monitoring	status display	• 2 line by 16 character OLED display		
	diagnostics	• Via status display, RS-232 and Ethernet/Wi-Fi (Wi-Fi can be disabled with no radio frequency transmission if required)		



Redundant LED design offers fail-safe operation.

The Christie Entero HB Series features multiple light-weight snap-in service panels for easy access and an improved mirror alignment system for precise geometry control.

Stand-alone LED light engine available for custom or direct throw installations.

Christie Entero HB SXGA+ displays					
Upgradability	software/firmware	• Fast, on site firmware upgrades via Ethernet or RS-232			
Options	accessories	• Full function IR remote keypad • Secondary DVI-D input module • Thinklogical direct fiber input card • Cube pedestals • Alternate screen types			
Physical characteristics		50" cube	67" cube	70" cube	80" cube
	screen size	• 40.02 x 30.04" (1016 x 762mm)	• 53.62 x 40.22" (1361 x 1021mm)	• 55.12 x 41.38" (1400 x 1050mm)	• 63.02 x 47.28" (1600 x 1200mm)
	cube depth (total)	• 24" (610mm)	• 30.9" (784mm)	• 31.8" (807mm)	• 36.2" (919mm)
	weight – cube	• 100lbs (45.2kg)	• 151lbs (68.6kg)	• 162lbs (73.4kg)	• 181lbs (82kg)
	weight – screen	• 51lbs (23kg)	• 76lbs (34.4kg)	• 87lbs (39.5kg)	• 101lbs (45.8kg)
	weight – engine	• 55lbs (25kg)			
	cube stacking limit[3]	• 5 cubes high			
	service access	• Rear light-weight panels for CC models			
Environment		Cube	Engine	Screen	
	operating temperature	• 40-90°F (5-35°C)	• 32-104°F (0-40°C)	• 63-88°F (17-31°C)	
	non-operating temperature	• -4-122°F (-20-50°C)	• -13-158°F (-25-70°C)	• -4-95°F (-20-35°C)	
	humidity	• 20-80% NC, 35-65% NC for storage		• 40-60% NC	
	altitude	• 0-3000m (0-10,000 feet)			
	seismic	• The CC80-3601 cube system, up to a stack height of 5, meets the loading and stability requirements of the BOCA National Building Code under seismic forces associated with Zone 4 seismic activity Note: Tiebacks and concrete anchors are required to achieve this rating			
Power rating (projection engine)		Eco mode	Normal mode	High brightness mode	
	power consumption	• 135W	• 190W	• 220W	
	dissipation	• 460 BTU/hr	• 648 BTU/hr	• 750 BTU/hr	
	voltage range	• 100-240 VAC (50-60Hz)			
Reliability and serviceability	MTBF	• >60,000 hrs for all major modules • 76,000 hrs for power supply			
	MTTR	• <15 minutes via modular servicing			
	cooling fan lifetime	• >100,000 hrs			
	LED lifetime	• >80,000 hrs in eco mode • >60,000 hrs in normal operating mode			
Regulatory (projection engine)		• (EC) 2011/65/EU (RoHS) • 2012/19/EU (WEEE) • Regulation (EC) No. 1907/2006 (REACH) • CAN/CSA C22.2 No. 60950-1 • UL 60950-1 • IEC 60950-1 • FCC, Part 15, Subpart B, Class A • ICES/NMB003 (A) • EN55022/CISPR22 Class A • EN55024/CISPR24 • The product is designed to comply with rules and regulations required for the product to be sold in various regional markets, including: USA/Canada, EU, Australia/ New Zealand, Kuwait, China, Korea, Japan, Mexico, Ukraine, Russia, India, South Africa, and Saudi Arabia			
Warranty		• Two years parts and labor limited warranty • Extended warranty available			
Additional features and benefits		• Integrated 6-axis adjustment system – no electronic image correction required • Tiling feature to display a single source across a wall array (to 25 displays) • DVI loop-through minimizes cabling • Multiple Ethernet ports minimize cabling • Safe, water-filled, maintenance free, metal sealed heat pipe cooling system ensures long LED lifetime and reliability • No liquid cooling pumps containing hazardous liquids and requiring annual maintenance/inspection nor hazardous waste disposal • Cable channeling system enables clean, professional and concealed cabling of all input, power and interconnect cables within the cubes			

[1] Other screen types available. [2] Depending on environment and wall configuration. [3] Depending on pedestal type used.

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